

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/05/97

Date Received: 11/20/97

Project: PO# M59166

Date Samples Extracted: 11/26/97

Date Extracts Analyzed: 11/26/97

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC**

**USING METHOD 6010**

**Samples Processed Using Method 3005A**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M59166	0.55	0.57	0.53	0.07
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

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Date of Report: 12/05/97

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### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 711079-01 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.55	0.61	10	0-20
Copper	mg/L (ppm)	0.57	0.62	8	0-20
Nickel	mg/L (ppm)	0.53	0.56	6	0-20
Zinc	mg/L (ppm)	0.07	0.07	0	0-20

Laboratory Code: 711079-01 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.55	90	89	80-120	1
Copper	mg/L (ppm)	5	0.57	91	90	80-120	1
Nickel	mg/L (ppm)	10	0.53	88	88	80-120	0
Zinc	mg/L (ppm)	5	0.07	90	89	80-120	1


Laboratory Code: Laboratory Control Sample

Analyte:	Reporting Units	Spike Level	% Recovery LCS LCSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	92	93	80-120	1
Copper	mg/L (ppm)	5	94	96	80-120	2
Nickel	mg/L (ppm)	10	90	92	80-120	2
Zinc	mg/L (ppm)	5	89	92	80-120	3

PJ#711 079



RJ AL  
11.20.97  
11A

Company ALASKAN COPPER WORKS Contact GERALD Thompson  
Address 628 HANSON ST  
City, State, Zip SEASIDE WA 98134  
Phone # (206) 382-8379 FAX # (206) 382-4309 Date 11-20-97

7238	METRO Self Monitor	M59166
SAMPLER'S (signature)	PROJECT LOCATION	
	3200 6th Ave S.	
REMARKS	SAMPLE DISPOSAL INFORMATION	

**Dispose after 30 days**  
**Return Samples**  
**Call for Instructions**

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	Gerald Thompson	ACW	11/20/97	10:37
Received by: 	Tom Russell	FBI	11.20.97	10:32
Relinquished by:				
Received by:				

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

December 5, 1997

**DUPLICATE COPY**

**INVOICE #97ACU1205-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project PO# M59166: Results of testing requested by Gerry Thompson  
for material submitted on November 20, 1997.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due .....

\$ 65.00

FEDERAL TAX ID #(b) (6)



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

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**December 5, 1997**

**Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134**

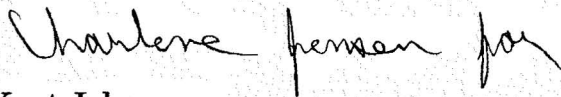
**Dear Mr. Thompson:**

Included are the results from the testing of material submitted on November 20, 1997 from your PO# M59166 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

**FRIEDMAN & BRUYA, INC.**



**Kurt Johnson  
Chemist**

**Enclosures  
ACU1205R.DOC**